

DEC 04 2006

FAX COVER SHEET

**PLEASE CONFIRM RECEIPT OF THIS FACSIMILE**

Attention: MAIL STOP AMENDMENT

Fax: (571) 273-8300

Group Art Unit: 2611

Examiner: BENGHUZZI, Mohsin

Phone: (571) 270-1075

UNITED STATES PATENT AND TRADEMARK OFFICE

Pages: Cover + 2 + 1 = 4

Date: December 4, 2006

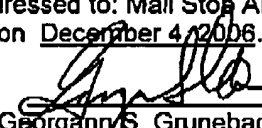
From: Georgann S. Grunebach  
Reg. No. 33,179Fax: (310) 964-0941  
Phone: (310) 964-4615

The information contained in this facsimile is confidential and may also contain privileged attorney-client information or work product. The information is intended only for the use of the individual or entity to which it is addressed. If you are not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any use, dissemination, distribution or copying of this communication is strictly prohibited. If you have received the facsimile in error, please immediately notify us by telephone, and return the original message to us at the address below via the U.S. Postal Service. Thank you.

---

**Certification of Facsimile Transmission under 37 CFR 1.8**

I hereby certify that the correspondence identified below is being facsimile transmitted to (571) 273-8300 addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450, on December 4, 2006.

  
\_\_\_\_\_  
Georgann S. Grunebach, Reg. No. 33,179  
(Name of Applicant, Assignee or Registered Representative)

December 4, 2006  
\_\_\_\_\_  
Date  
(Date of Facsimile Transmission)

Re: Serial No. 10/691,032

Filed: October 22, 2003

Inventors: Weizheng Wang et al.

For: UNBLIND EQUALIZER ARCHITECTURE FOR DIGITAL COMMUNICATION SYSTEMS

Attorney Docket No.: PD-202088

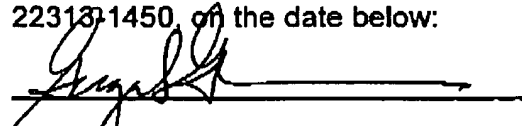
Transmitted herewith: INFORMATION DISCLOSURE STATEMENT (2 pages)  
SUBSTITUTE PTO FORM 1449 (1 page)

If you do not receive all pages, or pages are not clear, please call Karen Lum at (310) 964-0735.

DEC 04 2006

Patent  
PD-202088  
Customer No. 020991

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Weizheng Wang  
et al.Serial No.: 10/691,032  
Filed: October 22, 2003For: UNBLIND EQUALIZER  
ARCHITECTURE FOR DIGITAL  
COMMUNICATION SYSTEMSGroup Art Unit: 2611  
Examiner: BENGHUZZI, Mohsin: I hereby certify that this correspondence is  
: being facsimile transmitted to (571) 273-8300  
: (Centralized Facsimile Number) and  
: addressed to:: Mail Stop Amendment, Commissioner for  
: Patents, P. O. Box 1450, Alexandria, VA  
: 22313-1450, on the date below:: Georgann S. Grunebach  
: Typed or printed name of person signing certificate

: Date: December 4, 2006

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. § 1.97 (b)**Mail Stop Amendment  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

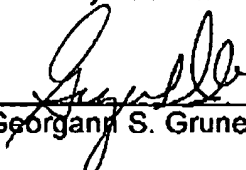
The references cited on the enclosed form PTO/SB/08A may be relevant or material to the examination of the above-identified patent application and are, therefore, submitted in compliance with the duty of disclosure defined in 37 C.F.R. §1.56.

This statement should be considered because it is submitted before the mailing of a first Office action on the merits under 37 C.F.R. § 1.97 (b) and therefore it is believed that no fee is due with this submission. If a fee is due, the Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Deposit Account No. 50-0383 of Hughes Electronics Corporation, El Segundo, California.

This Information Disclosure Statement is not to be construed as a representation that a search has recently been made, that additional information material to the examination of this application does not exist, or that this citation constitutes prior art.

Serial No. 10/691,032.....Page 2

Respectfully submitted,

By:   
Georgann S. Grunebach, Reg. No. 33,179

The DIRECTV Group, Inc.  
CA/LA1/A109  
P. O. Box 958  
El Segundo, CA 90245

Telephone No. (310) 964-4615

|  |                          |                      |
|--|--------------------------|----------------------|
| Substitute for form PTO/SB/08A<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b> | <b>Complete if Known</b> |                      |
|  | Application Number       | 10/691,032           |
|  | Filing Date              | October 22, 2003     |
|  | First Named Inventor     | Weizheng Wang        |
|  | Art Unit                 | 2611                 |
|  | Examiner Name            | BENGHUZZI, Mohsin M. |
| Date:  | December 4, 2006         |                      |
| Sheet 1 of 1   | Attorney Docket Number   | PD-202088            |

| U.S. PATENT DOCUMENTS |          |                                     |                                |  |  |
|-----------------------|----------|-------------------------------------|--------------------------------|--|--|
| Examiner Initials*    | Cite No. | Document Number<br>Number-Kind Code | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures<br>Appear |
|                       |          | US-6,369,648                        | 04-2002                        | Kirkman, George F.                                 |  |
|                       |          | US-6,477,398                        | 11-2002                        | Mills, Randell L.                                  |  |
|                       |          | US-3,076,180                        | 01-1963                        | Havens et al.                                      |  |
|                       |          |                                     |                                |  |  |
|                       |          |                                     |                                |  |  |
|                       |          |                                     |                                |  |  |
|                       |          |                                     |                                |  |  |

| FOREIGN PATENT DOCUMENTS |          |   |                                |  |  |   |
|--------------------------|----------|---|--------------------------------|--|--|---|
| Examiner Initials*       | Cite No. | Foreign Patent Document<br>Country Code-Number-Kind<br>Code | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures<br>Appear | T |
|                          |          |   |                                |  |  |   |
|                          |          |   |                                |  |  |   |
|                          |          |   |                                |  |  |   |
|                          |          |   |                                |  |  |   |

|                    |  |                 |  |
|--------------------|--|-----------------|--|
| Examiner Signature |  | Date Considered |  |
|--------------------|--|-----------------|--|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.